

PATENT ABSTRACTS OF JAPAN

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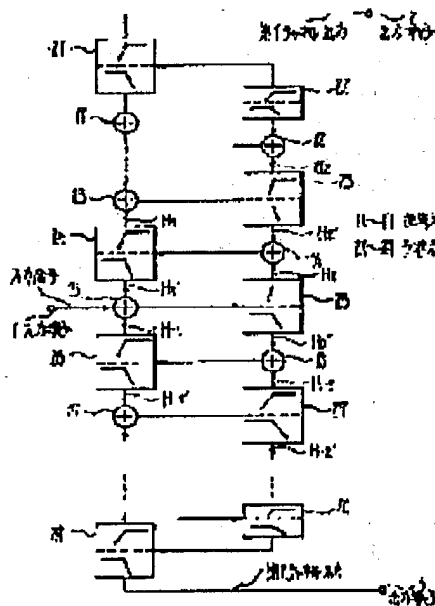
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(57)Abstract:

PURPOSE: To recover energy from a signal rejected in the past as well so as to utilize effectively an input signal, and to improve the signal-to-noise ratio of an output signal by connecting unit filters into a multiple stage in a manner that a signal is fed back in a cascade.

CONSTITUTION: After the input signal from an input terminal 1 passes through an adder 15, its feedback signal H_n (n is 0 and integer) of a signal within a desired signal band is led to an output terminal 2 through a filter 25, the adder 14, the filter 24, the adder 13... the filter 21 at a first channel side. Besides, a feedback signal H'_n of the first channel side is supplied to the adder 15, namely, it is supplied to a one-stage preceding filter. On the other hand, at a second channel side, after it passes through the adder 15, the feedback signal $H'-n$ is led to the output terminal 3 through the filter 25, the adder 16, the filter 26, the adder 17... the filter 21.



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